

the **CANNON**

University of Toronto Engineering Society

Volume VI, No. 4



Get a handle on flavour.



Budweiser. Brewed in Ontario by Labatt's.



the CANNON

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THE CANNON is a publication of the University of Toronto Engineering Society. It is published monthly to announce Eng Soc events, discuss faculty and university matters, and present technical information of interest to Engineering undergraduates. Subscriptions are available, call Ella at 978-2917. Anyone interested in helping with *THE CANNON* is most welcome.

THE CANNON encourages submissions; please type or write legibly. Deadline for articles and letters for the next issue is Tuesday, December 27. Comments on *THE CANNON* or articles appearing in it are appreciated. The editor reserves the right to edit for brevity.

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Carols, Music and St. Nick

For the second straight year, a Christmas concert will be held in Convocation Hall. The show will feature the Skule Stage Band, a vocal quintet, sing-along carols and maybe even Santa Claus!
page 5

The Verdict on Skule

Every day seems to bring more discussion of underfunding in this faculty and the university as a whole. The Dean discusses solutions to this problem, the usefulness of the \$100 incidental fee and other relevant issues.
page 6

Becoming a Professional Engineer

Just finishing four years of Engineering does not make you an accredited engineer. Here is a feature on the requirements for joining the APEO plus a description of the organization. page 10



In Every Issue.

Editor's Comments
President's Message
Eng Soc News
Engineering Athletics

page 4
page 5
page 8
page 13

Editor's Comments

Two significant trends that are currently occurring in this faculty combine to make a major problem. One involves the students' habits and the other concerns the APSC staff.

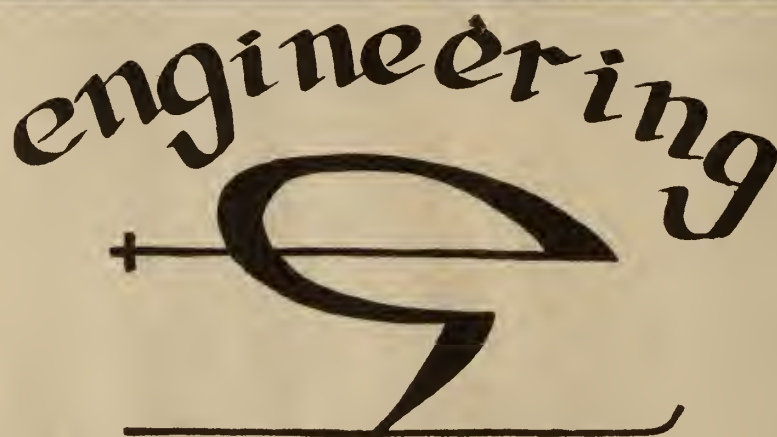
The first item is frequently lamented in papers like this one — student apathy. In fact, apathy is something of a misnomer for what has actually been happening. As discussed in the interview with the Dean (page 6) the students at Skule have become more studious and competitive and thus less interested in outside activities. This seems to be due to the ever increasing high school averages that are needed for entrance to Engineering. As well there is a prevalent attitude that school is just a gateway to a job; students tunnel their vision to that goal and fail to notice the attractive and enjoyable diversions along the way.

The Dean also mentioned a

shortage that has been gradually developing over the past decade. That shortage is one of staff. We are all accustomed to overcrowded classrooms, labs and tutorials. There is a formula relating the number of professors that are needed to serve a given number of undergraduates, Masters and PhD students. Using that equation we should have about 220 professors but our current total is only about 165. Of course, there is no money to hire the extra profs that we need.

Put together, the two patterns mean that more and more people are depending on fewer and fewer role models. This is where the real crunch comes — the models are hardly worth imitating. We continually sit in lectures where the professor seems bored and conveys the message that he would rather be elsewhere. These profs give the impression that the univer-

sity as a whole means nothing to them, a feeling that is passed on to the students who are so obsessed with learning how to be an engineer. Sadly, this isn't how! By not caring for students, the professors train their pupils to treat each other and their future co-workers the same way. This is the exact opposite of the way engineers will be required to act to be successful in the workplace. Sure, the professors are overworked and harassed. It may be unrealistic to expect them to be visible at extracurricular events. However, a bit of enthusiasm for their classes is not too much to ask. If the Faculty wants to keep its reputation and improve the interpersonal skills of its graduates, this professorial lack of interest must change. It is fine to talk about high quality professors but technical ability alone does not make a high quality engineer.



SKI DAY

*January 6, 1984
at Osler Bluff Ski Club*

Both tow and bus tickets will be available in Eng Soc and through SAC

President's Message

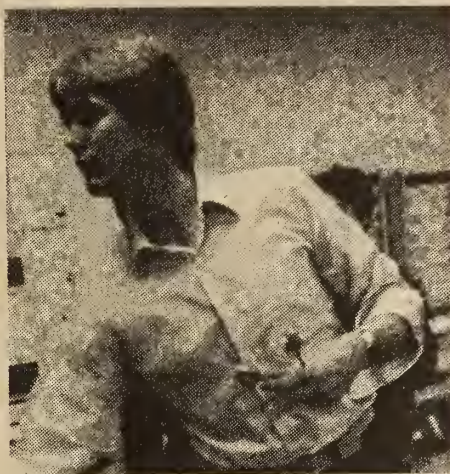
Ron McKenzie
Eng Soc President

As the fall term is quickly coming to a close and we find ourselves madly preparing for the onslaught of exams, take the time to read the interview with Dean Slemon in this issue.

Since my first year I've noticed a continuous decline in Skule pride. After talking to many students, the two main reasons seem to appear time and time again:

- 1) underfunding
- 2) faculty attitude toward educational instruction

The problem of underfunding is something we are all aware of. Simply look at any of the labs in any department. What you will see is inadequate, prehistoric technology. How can we be expected to perform in industry without the necessary training and exposure to the latest technology? The answer is quite simple, we can't! The reason this situation has developed is not the result of



any one individual. But the problem exists and must be attacked. To this end, I have sent a letter outlining the present situation of undergraduate facilities to Dr. Bette Stephenson, the Minister of Colleges and Universities in the provincial government. I will also be meeting with U of T President Strangway in January to see how we can increase our slice of the pie.

The second problem is an equally serious issue. When was the last time you saw one of

your professors at a football game? Hockey game, maybe? With the exception of a few outstanding individuals, chances are slim to none. And I'm sure at times you feel like they just don't care about whether or not you learn the course material, true?

A division has emerged between professors and students. What results is that the professors and students seem to inhabit two different worlds and thus each group continues to perform independently with little interaction. But our faculty members are human; I'm sure if you ask any of them what they did during their undergraduate years you'll be amazed. Not the problem sets!! The times when there were 22,000 students at the Blues football games (more than the Argos at that time), the kidnapping of the Meds' President, using pea shooters to add variety to a certain burlesque show after exams, and the list goes on. They were proud to be Skulemen. So what happened? The point I'm trying to make is that if the faculty took more interest in their undergraduates, the pride which existed in the class of 4T9 would be passed on to the classes of the 80's. We are still the most visible and spirited student society on this campus, but we have a lot of room for improvement. Ask your professor out for a beer. Chances are good you'll both find the meeting extremely rewarding.

In closing, I would just like to wish everyone the best of luck on their exams and best wishes for the holiday season. We'll see you in January.

Skule Christmas Bandstand

Malcolm McGrath
Assistant to the Dean, Alumni Liaison

The second annual Christmas Concert takes place in Convocation Hall on Friday, December 2 at 12:15pm.

Our new Skule Stage Band under the direction of Clifford Alexander will present selections and Malcolm McGrath, Assistant to the Dean will be at the console of the mighty Casavant organ to accompany the singing of carols. Part of the program will include a work for brass trio and organ with Cliff Alexander and Kent Fletcher playing trumpet and Danny Gargaro on trombone. As well, a vocal quintet starring our own Ella Lund-Thomsen will favour us with a tune or two.

Rumour has it that arrangements are being made for a surprise visit by an illustrious personage in a red suit.

Don't miss it! Tell your friends!



Dean Slemon in a Candid Interview

An Inside Look at Where U of T

In light of the constant publicity given to the issue of university underfunding, *the Cannon* chose to interview the Dean of the Faculty of Applied Science and Engineering to discuss its financial situation as well as other issues of student interest.

the Cannon: It is now more than a year after the referendum which approved the \$100 incidental fee. How has this voluntary student move helped in getting funds from other sources?

Dean Slemon: The most notable effect has been the enormous increase in Alumni donations. Last year the Alumni fundraising totals increased by 80% and there was a dramatic rise in the number of individuals who matched the student gift of \$100. Many of these graduates had not given in the past or had made much smaller contributions. There has also been increased success with raising money from private industry with several large companies allocating funds to enhance research in a particular field. Unfortunately, the government has yet to respond in kind.

the Cannon: Why are we having so much trouble getting funds from the government?

Dean Slemon: Our faculty presently receives its budget through a lengthy process. The Ontario government allocates a certain sum to the Ministry of Colleges and Universities which then passes a certain allotment on to U of T at which point Simcoe Hall decides on the percentage that goes to APSC. Some U of T faculties receive additional money from ministries which are closely related to an area of specialization. For example, the Faculty of Medicine is funded by

the Ministry of Health and the Faculty of Education (plus OISE) by the Ministry of Education. In keeping with the current explosion of high technology industries, we hope to procure funds from the Ministry of Industry and Trade in the future. The one hopeful note at present is that the Ministry of Colleges and Universities has allotted a portion of their budget specifically to equipment purchases for the first time. This is a beginning in our faculty's search to overcome the policy of uniform distribution of funds in this university.

the Cannon: What do you plan for after 1984-85 when the incidental fee period will have expired?

Dean Slemon: The Faculty of Arts and Science is preparing to implement a \$20 incidental fee for each lab course. This fee is designed to be a continuing, permanent measure and with its similar purpose, it is logical that our fee should also be a continuing one. It seems unreasonable to go back to the policy of charging students for lab notes and the like (one of the items covered by the incidental fee). The initial publicity effect of the \$100 donated by students will wear off but the need for a supplemented equipment budget has not disappeared.

the Cannon: Can students do more than just the \$100 donation?

Dean Slemon: The greatest lack of equipment in this faculty is that approximately 100 computer terminals are attempting to serve 2500 students. The demand is already exceeding our capabilities and the use of our VAXs will only increase. Something must be done to relieve the pressure on these

terminals and simultaneously free up some money for other uses. Though it cannot be done immediately, it is likely that in the near future every student will need a sophisticated microprocessor with a modem that can act as a terminal in the home. This change is not as drastic as it sounds because many of the class of 8T7 already have home computers that can serve this purpose.

the Cannon: What other major changes are in store for the Faculty?

Dean Slemon: At the moment we are facing two major shortages: staff and space. Regarding the former, we have only about two-thirds of the number of staff members that is recommended for our student population. The resulting lack of individual attention is particularly crucial because the current engineering growth is in new industries rather than the older, well-established areas. It is thus vital that our graduates be well trained in order to bolster this growth in the new high technology sector. The only solution to our staffing problem seems to be creating closer links with industry, a co-operation that is quite novel for Canada.

In the last few years, labs, classrooms and offices have become unbearably crowded. Real estate is very valuable on this campus, but it is hoped that the opening of the planned Natural Resources Centre which will empty the Mining and Forestry Buildings should give our faculty some room for expansion.

the Cannon: Is U of T Engineering alone in these financial difficulties and therefore losing ground in

Engineering Stands

relation to other Canadian engineering schools?

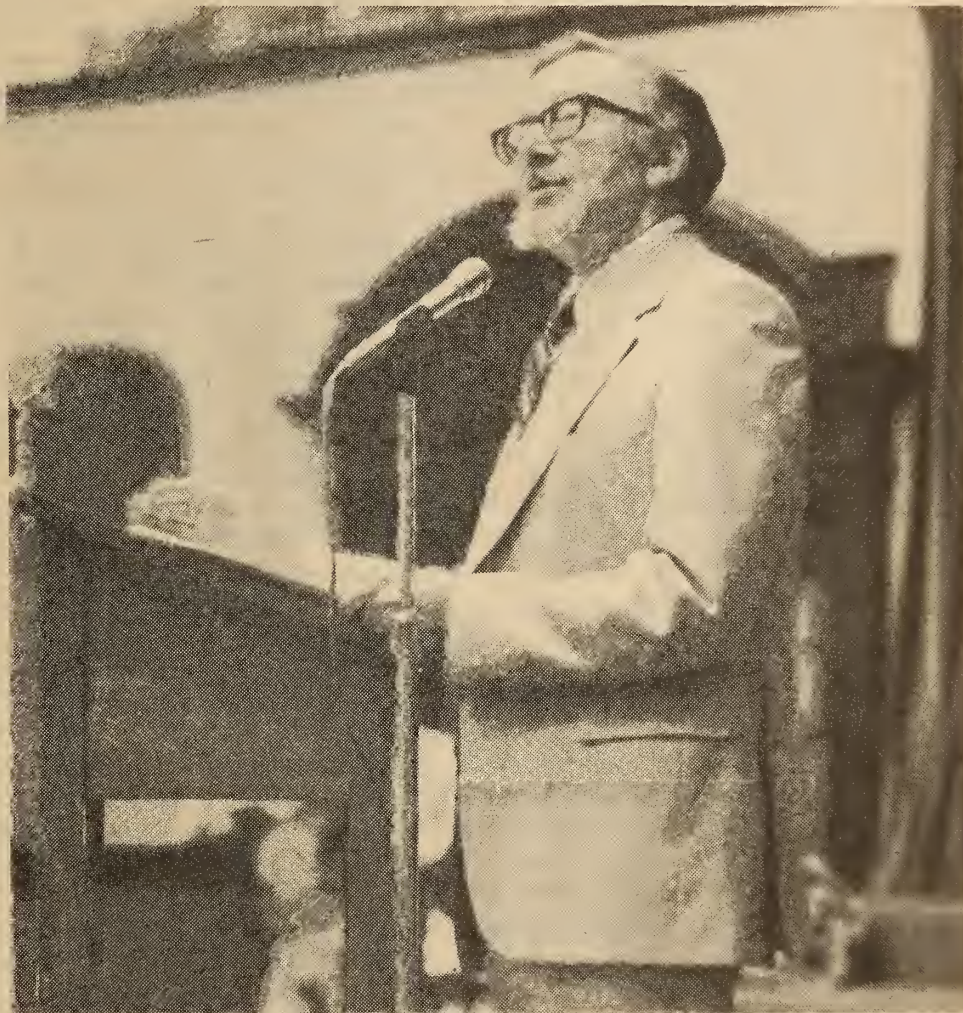
Dean Slemon: The educational budget cutbacks seem to have hit all universities severely and the other schools suffer similar staff and equipment shortages. To some extent the universities in the western provinces have had more success in soliciting government funds and are perhaps slightly better off.

the Cannon: In recent years, there seems to have been a decline in Skule spirit. Do you have any ideas on the reasons and possible cures?

Dean Slemon: From an administrative standpoint, student apathy is seldom a visible problem. When students disagree with a policy their feelings are always expressed so a lack of comment is usually taken as implicit endorsement. The curriculum is indeed much heavier than when I was an undergraduate and this workload and competition seems to simply prevent students from becoming involved in other aspects of their university and community.

the Cannon: Has this problem arisen because there is a more serious breed of students entering the Faculty as reflected by the increasing entrance averages? Are these mainly academic students going to make better engineers?

Dean Slemon: Though it is imperfect, no better system has been devised than using marks as a cutoff. High school averages do show that an individual has been motivated to work hard, a quality that is of course also needed upon entering Engineering. The hazard in the narrowing of our students so that many *only* study is that they fail to acquire human



Dean Slemon addresses another audience

relations skills. More and more the practicing engineer is responsible for management of people and APSC needs to teach more of these skills. It is hoped that our lack in this area will be rectified by closer links with the Faculty of Management Studies in the future.

the Cannon: Any other comments?

Dean Slemon: The other critical problem APSC is facing is one of the public image of its function. High school students fail to realize that all engineers of the future will need to apply computer techniques to problem solving. Many of these potential engineers are more

interested in and suited to applying computing methods than designing hardware or operating systems. However, because of their ignorance, they flock to Electrical Engineering and the electrical and computer science options of Engineering Science. Through the guidance counsellors and math and science teachers we must convey the message that computer applications are essential in all engineering disciplines or else the electrical program will undergo even more pressure and we will be failing to serve the true needs of the public.

Engineering Society News:

More SAC Information

As you are probably aware, the recent SAC fee referendum passed, with 59% of 2249 voters being in favour. Engineering had the largest turnout of the downtown constituencies with just over 57% of 269 engineers who chose to vote endorsing the proposed fee increase schedule. This means that full-time undergraduate students will pay an additional \$3 in SAC fees next year, another \$2 in 1985 and another \$2 in 1986 subject to Governing Council approval. Fees will, therefore, go from their present \$10.75 level to \$17.75 in 1986, with \$3.25 continuing to go to U of T Radio.

And where will this money go? Quite simply, wherever future administrations see fit.

So if you want to see this money well spent, again the solution is quite simple. Get Involved! Get involved... how many times have you heard that this year? But it's so true. Especially when it comes to SAC. Tell us what you want — drop a note off for one of your Engineering SAC reps at SAC or in the Eng Soc mailbox, wander into the SAC building (12 Hart House Circle, the grotty looking place with the dome — just in case you haven't stumbled over it yet) and demand to talk to someone (say you are an engineer — you will get immediate respect), come to a board meeting (alternate Wednesdays in the Croft Chapter House), ... whatever! Just do it.

The point is, SAC is only as good as the people involved in it. At present, too few people have got far too much to do. So give them a hand. For example, SAC has a multitude of committees and commissions dealing with such concerns as services, women's issues, the Sid Smith

Pub, educational issues — almost all of which are open to members of the corporation (that's you). Find out about them and get involved! Anyway, enough is enough. Let me tell you about some of the things we are doing.

A few weekends ago SAC held a conference about CFS — the national organization that represents students from some of the post-secondary institutions across Canada. U of T pulled out of CFS last year, so the purpose of the conference was to discuss possible changes to the organization's structure such as weighted voting and prioritization of issues, that would both encourage institutions like U of T to rejoin and improve the ability of CFS to handle issues effectively. Unfortunately, little consensus formed among delegates. However, much was learned and the questions raised will probably come up at the CFS Ontario region conference early next year.

The SAC underfunding campaign is now well underway. This is SAC's major campaign of the year, and will consist of the documentation of specific examples of how underfunding has affected students at U of T. The aim is to gather enough information about the issue to approach the university administration and Ontario government regarding the magnitude of the problem. SAC is once again asking for your input. Submissions of reports, cases and personal concerns pertaining to underfunding are requested. Look out for more details or phone SAC.

For those concerned, SAC Project Aid requests for this term are now being considered and final decisions will be made shortly. Applications will reopen again next term, at which time more specific guidelines as to

eligibility of campus groups should be available.

Lastly, watch out for the SAC phone directory just before exams, and also keep an eye open for the first issue of the SAC Info Series (which will have the very beneficial effect of making these reports shorter in future). Erindale has put out an 'Abuse Your Engineer' calendar which is mildly amusing. They are available for \$2.99 plus tax at SAC and Info Booths.

By the way did you know...

- along with free coffee, SAC has a reading area with the daily newspapers and a free phone?
- the Sid Smith Pub is still open every night after 7pm and now has munchies, video machines, liquor, but no name?
- Mark Hammond keeps a live ferret in the basement of the SAC building and every night at 12 midnight he...

Peter Miller
SAC Rep

Faculty Council News

All Faculty Council Reps are reminded that there is a full Faculty Council meeting next Wednesday, November 30 at 2pm in GB202. All reps should attend and don't forget that you are excused from labs and tutorials without penalty in order to attend the meeting (but tell your prof first, eh?)

The Eng Soc President, Vice-President Administration and Executive Faculty Council Rep met with the Dean on November 23 to discuss ways of increasing funding to the Faculty and alleviating problems we are having due to cutbacks. Talks centred on increased joint action with the Faculty and the Alumnae. A report on the meeting will appear in the next issue of *the Cannon*.

Paul Shindman
Executive Faculty Council Rep

Reports, Events and Issues

Does It Ring a 'Bell'?
Your Profession
Your Job
Your Future



On October 28, your Professional Development Committee hosted the 'Bell Talk'. This 'talk' and all others like it are open to all students of this faculty and are given as a service for your benefit. The following is a summary that will provide insight into the field of engineering and into the hiring practices of any large firm such as Bell Canada.

What qualities is an engineering firm looking for? The two most important are, in order of preference, ranking in the top half of your class and showing leadership skills through work experience and extra-curricular activities. Slightly less critical but also considered are work/interest match and geographical preference. Obviously no one has all the qualities a company is looking for so the idea in a resume and interview is to emphasize your strong points.

What do they look for in an interview? You must impress the person giving the interview! The ability to communicate is a must for both the manager and the researcher-to-be. Find out about the organization beforehand. This will enable you to ask intelligent questions during the interview. The interviewer sees as many as 50 or 60 people for one position. A very important point is to make yourself stand out by showing enthusiasm.

What areas are open after graduation? The major areas are research, marketing and sales, and management. Because

each of these has many elements, an engineer with a broad background has the advantage. The professional that gave this talk, Mr. David Salba, has held at least half a dozen positions in his 13 years with Bell Canada. To show the variety at Bell, within the research area there are the following departments: technology, planning, design, provisioning, and maintenance of systems. A person working in research could be expected to move from department to department. The skills needed would range from Physics to Economics (used for cost analysis in the planning department).

If someone wishes to stay in the technical engineering field, the place to be is in research and development or a consulting firm. For those who do not. The ladders to climb are towards marketing and sales and management.

Once I have a position, what is expected of me? The best way to describe the firm's expectations is with a list of qualities Bell Canada looks for when doing a personnel appraisal:

- quality of work
- leadership
- behavioural flexibility
- resistance to stress
- creativity
- oral communication skills
- written communication skills
- energy
- tolerance to ambiguity

The importance of each of these depends on what your long and short term goals are. For example, an appraisal with excellent

ratings in leadership, quality of work, creativity and communication skills tells the company that you are suited for management.

For about the first two years you will usually be working on the technical level. Based on appraisals and recommendations and your wishes, you will be promoted towards management in future years.

Although this information is related to Bell Canada it can be applied to your endeavours with any large firm.

In January, look for information regarding the next 'talk'. A very prominent Toronto politician, and U of T engineering graduate, Metro Chairman Paul Godfrey will speak about his career, the diversity of the engineering profession and the future of Toronto. A question and answer period will follow.

Karl Sarkans
Professional Development

Cystic Fibrosis Donations Continue

Proceeds from the Cystic Fibrosis bubble (read 'jar') continue to mount up. The latest count for the bubble in the Sandford Fleming cafeteria is \$700. That's a lot — let's keep it up!

Peter Miller
Shinerama Chairman



How to Become a Professional Engineer

How and Why Should I Join?

Lynette Fairweather
Mech 8T5

The Association of Professional Engineers of Ontario is the body licensed by the government to identify and approve professional engineers in Ontario. They presently have 50,000 members, 40,000 of whom currently work in the province. The association operates solely on its \$65 yearly membership fee. One may wonder what you get for your \$65 but that isn't quite the way to look at things. The question is not what you get, but what you give and

who you support. You are supporting yourself by helping to maintain the high level of professional standards presently in operation in our province.

In order to become a member of the Association you must fulfil three prerequisites which are: an education at an accredited institution, two years practical experience and the successful completion of the new 'Pre-Requisition Questionnaire', an open book examination on the Professional Engineers Act, the By-Laws and Regulations and the Code of Ethics.

To fulfil the requirements for

your practical experience you must work in an engineering position for 2 years. If you choose to continue your education and get your MSc, MEng or your PhD you probably will be given one year experience but you will still have to obtain an additional year in the work force. One of your two years experience must be in Canada and all 24 months of your employment must be verified by references. No experience is granted to Waterloo co-op students on their work terms or to U of T students for their PEY term. There are various ways to fulfil the requirements for successfully

What is the APEO?

The Association of Professional Engineers of Ontario is an autonomous organization, responsible for the discipline of its members, the assumption of social responsibilities, and the upholding of a Code of Ethics which guides engineers in their relations with the public, employers and other high ideals of personal honour and professional integrity.

The Association embodies the concept found in all professions of personal acceptance of the obligations incumbent upon a professional person.

APEO disciplines members found guilty of professional misconduct or malpractice, which may result in a reprimand, suspension or cancellation of membership or license to practise. It prosecutes those who practise under false pretences.

The Association requires its members to make effective

provisions for meeting lawful standards, rules or regulations relating to environmental control and protection, in connection with any work being undertaken by them or under their responsibility. It is concerned with the technical competence of its members, and encourages participation in appropriate technical or learned societies such as the Engineering Institute of Canada.

The Association, in cooperation with the universities, ensures that your engineering course provides the educational background needed for your engineering career. Through the process of accreditation under the aegis of the Canadian Accreditation Board, the curriculum, facilities, staff and resources of an engineering school are appraised in depth, and a course is accredited only after it meets a number of prerequisites. It en-

sures that you and your peers will engage in practise with the same high standards of academic knowledge as a safeguard to the public.

Services offered by the APEO include the Employment Advisory Service which includes counselling and employment assistance is available to all members. Two salary surveys are conducted annually: the 'Report on Engineers' Salaries — Survey of Employers' carried out mid-year and the 'Membership Salary Survey' in December.

The APEO is a constituent member of the Canadian Council of Professional Engineers, which provides national representation for the profession at the federal level. On many occasions it acts in an advisory capacity on engineering matters to the federal government, as well as to international bodies.

obtaining your two years of practical experience and the best way to ascertain these is to check with your local APEO representative — Dean Wright is the APEO representative for U of T.

The test was just introduced by the APEO in May of 1982 in an attempt to upgrade the standards of its members. After the first writing of the test, 85% passed the exam and the other 15% were temporarily denied their P.Eng status. A mark of 50% is a pass. It is interesting to reflect on how many of the currently registered 50,000 members are completely qualified.

Apparently, though, the test is not difficult to pass if you read the two test preparation books. Together they cost \$40 and as they are printed in large type, take about 5 hours to read from cover to cover. There are 2 parts to the exam both of which must be passed at a single sitting. Part A deals with evaluating case studies. Surprisingly enough, some people fail this part because they simply don't answer the question. It seems they don't understand it and don't even attempt to answer. It has been suggested that since the questions give incomplete information that when one is answering them, one makes and lists some assumptions. You fix one parameter then evaluate what happens. Then you fix another parameter and see what changes, etc. (Sort of like IND370?) It is important that you cover the alternatives, stick to the question and don't read things into it, seemingly simple tasks but those before us apparently failed to perform them. Part B deals with legal terminology and it seems that people fail here because they don't open their practice book and try to understand the definitions.

If you fail the test you can rewrite it and you are allowed to fail three times. After that you are required to go before the board to discuss if it is worth-

while for you to write the test again.

The test itself presently costs \$70, so for a total of \$110, five hours to read the books plus

three hours to write each part of the test you can complete your final step to becoming a professional engineer in Ontario. Not too difficult, is it?

Tour of IBM Plant Planned

On Thursday, January 26, a tour of the manufacturing facilities of IBM has been arranged by the U of T IEEE student branch. The tour size is limited to 40 people so the places will be filled on a first come, first served basis with preference given to students in electrical related courses. To ensure commitment, a \$5 deposit is required which will be fully refunded after the tour to those attending.

For more information on the tour of the IEEE, or to sign up for the trip, enquire at the IEEE McNaughton Center, in EA316 during lunch hours.

"Immediately following the exams"



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GB 422

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Success, Disappointment, Victory and Defeat

Engineering Athletics

Michelle Bolhuis
E.A.A Publicity Director

Men's Soccer

Most people have heard of 'rebuilding' years in athletics; the Varsity Blues have them and the NASL Blizzard is in a perpetual state of reconstruction. This season was a legitimate year of rebuilding for Engineering Soccer as only four players returned to the Senior team and five to the Junior team. Nonetheless, there were some bright spots evident in the rebuilding process with the Senior team reaching the finals in Division I and the Junior team missing the playoffs in Division III by a referee's whistle. No team was entered in the Labatt's tournament this year as it was too early in the fall. However, the organizers have promised a later date in 1984 and Skule will be involved.

With a record of 0-3-3 the Senior team side looked worse on paper than it was. All three losses were 1-0 decisions indicating a lack of scoring touch while the three points for tying were earned on single goal or scoreless draws. The 1-0 semi-final decision over first place Erindale (5-1-0) proved the skill and strength of the Skule team. A 2-0 defeat at the hands of Scarborough (also 5-1-0 in regular season play) in the final game came as a reminder of the inexperience of a young team. Down by 2 goals at the half (from an own goal and a fluke bounce), Skule gave up all initiative in the second half and were saved from further damage by fine goalkeeping.

A recurring problem was the presence of mid-terms as home games are played at 3:15 and

4:15 and road games required leaving at 2:00pm. As many as four players in one game either had mid-terms moved or skipped labs to play. This was indicative of the high level of dedication and team play achieved on this team. With up to twelve of the sixteen player squad returning next year it looks like the two trips to the finals in the last three years will finally be rewarded.

The Junior team, at 1-3-2 in Division III play, actually outscored the opposition. But considering an incompetent referee and the 10 teams in the division, they did not manage to reach the playoffs. In the past the Junior team has been neglected due to a shortage of willing coaches and managers. This was partially resolved this year and hopefully will be a memory next year. A core of dependable players and a rotating group of other players did well despite dropping a disappointing 3-2 decision to Devonshire. The three opposing goals were the result of 2 questionable penalty kicks and a very poor line call (or lack thereof) by the referee. With about half of the team returning the Juniors should be strong again next year and will do better with the restructured smaller divisions planned for '84.

Many thanks should go out to the players who gave of their time and to the professors who were flexible in either rescheduling mid-terms or postponing them — it was greatly appreciated.

Tackle Football

The men's interfaculty football team ended its season on Friday, November 18 when it played St. Mike's in the semi-

finals, dropping an 18-10 decision. The regular season was highlighted by 2 victories over Victoria and Scarborough colleges.

As in previous years, the team was characterized by a dominating defence, led by the outstanding play of cornerback Jim Cleary.

The offence improved steadily over the course of the season. Rookie fullback Chris Rick was a tower of strength throughout the year. Good performances were also turned in by veteran tight end Tim Jones, centre Rob MacGillvray and rookie quarterback Adam O'Boyle. Versatile Paul Vaarsi was a major contributor to both the offence and the defence.

Thanks go to R.C. Coleman for his dedication in coaching the team to a fine showing. With several veterans returning and the fine rookie crop this year, the team looks forward to success in the future.

Rugby

The men's rugby team was defeated by Meds in the semi-finals. However, in more 'significant' action, the U of T Engineering Rugby team won the tournament at Queen's and is the Ontario-Quebec Inter-Provincial Engineering Rugby champions for the second year in a row. (U of T can beat Queen's when it really matters.)

Women's Soccer

The women's soccer team had a pretty respectable season finishing with 1 win, 4 ties and 1 default (due to a torrential downpour). They entered the playoffs in 5th place of 8 teams

continued on page 14

Engineering Athletics

continued from page 13

but sadly lost the quarter-final match to Pharmacy (2-0).

Women's Hockey

The Skule women's hockey team got off to a great start this season by shutting out St. Hilda's 3-0. Judy Wilson got the shutout with Shaunagh McParland and Dale Kerr, with two goals, providing the scoring punch.

Any interested players should contact either Dawn Demetrick at 537-1473 or Paul Shindman at 977-1515. Equipment is provided.

Innertube Waterpolo

The Engineering women's

team reached the semi-finals losing a heartbreaker to Forestry. Better luck next year!

Touch Football Tournament

Mech 8T6 won the Engineering Touch Football tournament. A total of 14 teams were entered and all enjoyed a day of activity (despite minor aches and pains afterward). For one team's reaction, read on.

Roaches '83 Protest

Probably one of the most devastating tragedies in all touch football history was witnessed on October 30, 1983 — the elimination of the Elec Eng 8T4 Roaches from the playoffs of the 1983 Engineering Touch Football tournament.

To gain a little more insight into the affair, here's a bit of

history. The Roaches entered their first team in the 1982 Touch Football tournament and finished with a record of 1 win and 2 losses. They vowed on that day that the 1983 tournament would find them victorious. And the preparation began.

By game time on October 30, all was ready. The beer tub was filled with countless ice-cold Canadians (sorry, Jeff), the bright orange sweaters were donned by all, the cheerleaders were ready and the tournament began.

The first game was lost by a fraction to the Geo 8T6 class, and quarterback responsibilities were quickly snatched from sweater supplier Andy Cubeun and awarded to Marty 'Can I borrow your software assignment?' Wildberger.

The second game found the



The triumphant Mech 8T6 Touch Football team

Roaches victorious with a display of true defensive excellence by Jim 'Cardiac Kid' Lycett. The third game went much the same way.

All ready for playoff action, the Roaches were then informed that, by virtue of a rather shaky technicality they had been eliminated from playoff action.

Everything was lost...

Many players considered suicide... still worse others transferred into Analog Filters.

And yet, despite all these misfortunes, the Roaches maintained high spirits (no pun intended) and have committed themselves to challenging any and all in the soon to come 1984 tournament (we're already preparing!).

Chem 8T5 'Blues'

This season the rag-tag fleet of hockey rejects has again taken the ice to defend the honour of engineering and seek revenge for last year's defeat. During the 1982-83 season they remained undefeated until the final game of the playoffs when the mindless bullies from 'Scarberia' defeated them 4-3 in double overtime.

Unfortunately (or fortunately?) due to an Act of God (ie. some artsman screwed up), the team found itself in the interfaculty 'B' division instead of the 'D' division when the schedule came out. The initial reaction was one of panic but this was quickly alleviated by 2 cases of beer (actually closer to 5 cases).

Undaunted, the team pushed on. Bolstered by the addition of retread stars, 'Stonewall' Lockhart, Julius Hunte and Paul 'The Frog' Mathieu, the team has since defeated the Faculty of Education and Victoria College.

Attention Skiers

As advertised in this issue of the Cannon, the annual Engineering Ski Day will be held on Friday, January 6, 1984 at

Osler Bluff Ski Club. At this time, tryouts will be held for all men and women wishing to race in the novice or experienced classes at the interfaculty ski

meet. All interested racers please contact Eugene at 967-5635 or 978-6593 as soon as possible.

See you on the slopes!

Engineering Athlete of the Month



November's Alumni Athlete of the Month is Carolyn Fraser. Carolyn is in Mech 8T4 and is currently the Women's Aquatic Commissioner for the Engineering Athletic Association. She has been a super athlete for the soccer, football, hockey and waterpolo teams. Her Skule spirit has led all of these teams to victory.

Coming in January
Godiva Week . . .
start building those chariots now!

ar·ma·dil·lo \,är-mə-'dil-()ō \ n, pl **armadillos**
[Sp, fr. dim. of *armado* armed one, fr. L. *armatus*] :
any of several burrowing chiefly nocturnal edentate
mammals (family Dasypodidae) of warm parts of the
Americas having body and head encased in an armor
of small bony plates in which many of them can curl
up into a ball when attacked

(a Synonym for a popular Canadian beer.)

